

# Lumination™ LED Luminaires

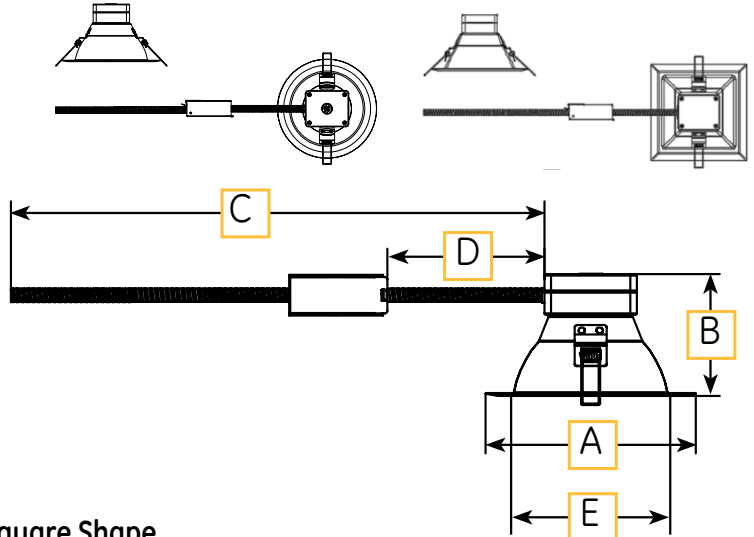
LRX Series  
LED Downlights



## Product Description:

The Lumination™ LRX Series LED downlights are the ideal retrofit or new construction solution for traditional downlight fixtures. They install in just minutes into most 4-inch, 6-inch, and 8-inch rough-in frames and bring a fresh look to the space. Unlike plug-in LED lamps, the LRX downlight gives you a new power supply and 50,000 hour life rating, so that you won't have to worry about compatibility or maintenance issues with the original ballasts. All downlights in the LRX family utilize a non-conductive polycarbonate trim perfect for wet rated applications.

## Product Dimensions:



**Input Voltage:** 120 - 277V, 120V (Phase Dimming)

**Standard Dimming Controls:** 0-10V down to 10%, Forward Phase Dim down to 10%

**CCT:** 3000K, 3500K, 4000K

**CRI:** 82

**Lifetime Rating:** L85 @ 50,000 Hours

**Input Frequency (Hz):** 50/60Hz

**Power Factor:** >0.9

**Mounting Options:** Spring clips clamp on to existing frame

**Weight:** 0.6 lb

**IC Rating:** Non-IC Rated

**Limited Warranty:** 5 years system

**Files Available:** LM79, LM80, IES

## Square Shape

### 4 inch:

A= 5.75" (146 mm) B= 3.74" (95 mm)

C= 24" (609.6 mm) D= 6" (152.4 mm)

E = Ceiling Cutout Min: 4" for ceiling thickness ≤ 10mm; 4.2" for ceiling thickness > 10mm

### 6 inch:

A=7.75" (196.8mm) B=4.5" (114.2mm)

C=24" (609.6mm) D=6" (152.4mm)

E = Ceiling Cutout Min: 5.6"

### 8 inch:

A=9.75" (247.6mm) B=5.1" (129.4mm)

C=24" (609.6mm) D=6" (152.4mm)

E = Ceiling Cutout Min: 7.6"

## Round Shape

### 4-inch

A = 5.6" (142.3 mm) B = 3.74" (95 mm)

C = 24" (609.6 mm) D = 6" (152.4 mm)

E = Ceiling Cutout Min: 4.4"

### 6-inch

A = 7.75" (196.8 mm) B = 4.5" (114.2 mm)

C = 24.0" (609.6 mm) D = 6" (152.4 mm)

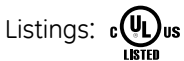
E = Ceiling Cutout Min: 5.7"

### 8-inch

A = 9.75" (247.6 mm) B = 5.1" (129.4 mm)

C = 24.0" (609.6 mm) D = 6" (152.4 mm)

E = Ceiling Cutout Min: 7.7"



- UL and cUL Listed.
- Suitable for wet locations



| Item #           | Size | Lumens | Temp |
|------------------|------|--------|------|
| GEO LRXR610835MD | 6"   | 1000   | 3500 |
| GEO LRXR610840MD | 6"   | 1000   | 4000 |
| GEO LRXR618840MD | 6"   | 1800   | 4000 |
| GEO LRXR830840MD | 8"   | 3000   | 4000 |

## Accessories

|                                 |                             |
|---------------------------------|-----------------------------|
| GEO GRRC6RPTWT 6" GOOF RING     | Oversized holes in ceiling. |
| GEO GRRC8RPTWT 8" GOOF RING     |                             |
| GEO FRAME6R DOWNLIGHT FRAME KIT | New construction.           |



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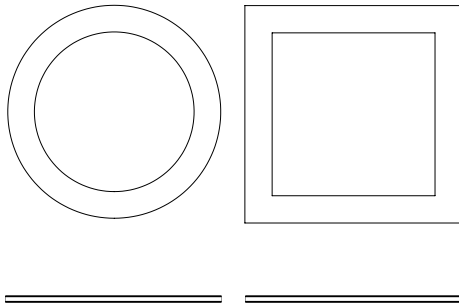
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Warren/Youngstown  
330.372.3344

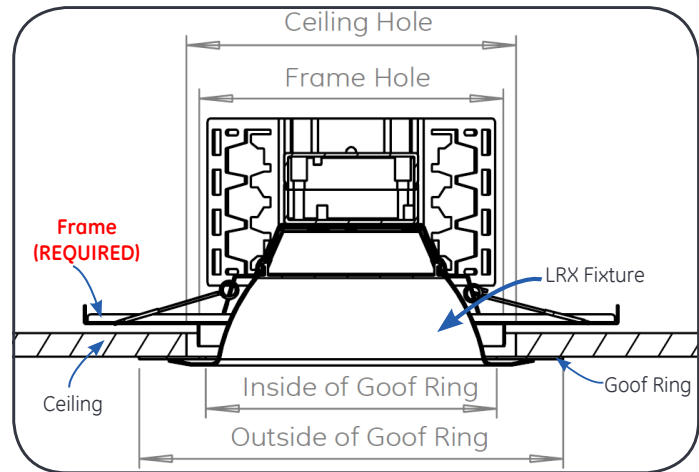
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## LRX Remodel (Goof) Ring Accessories: (Ordered separately):

The essential accessory for any project, the goof ring helps to cover openings in the ceiling with a trim that blends with the existing LRX trim. Goof rings are available in white only. Verify the existing opening and LRX fixture to order the correct goof ring, details shown in the table below. Always verify proper installation per the Installation Guide.



### Installation Position



**Note:** Please check the compatibility of the goof ring and the fixture by referring to the table below.

#### A. For Retrofit

| Goof Ring SKU | Goof Ring Description | Goof Ring Shape | Suitable Fixture | Suitable Frame       | Frame Hole | Inside of Goof Ring | Outside of Goof Ring | Ceiling Hole(min) | Ceiling Hole(max) |
|---------------|-----------------------|-----------------|------------------|----------------------|------------|---------------------|----------------------|-------------------|-------------------|
|               |                       |                 |                  | Dimensions (in.)     | Size (in.) | Size (in.)          | Size (in.)           | Size (in.)        | Size (in.)        |
| 93114516      | GRRX4R6PTWT           | Round           | LRXR4xxxxxxx     | 12.60 x 7.64 x 3.54  | 4.20-5.50  | 4.48                | 7.09                 | 5.2               | 6.69              |
| 93114517      | GRRX4S6PTWT           | Square          | LRXS4xxxxxxx     | 12.60 x 7.64 x 3.54  | 4.20-5.50  | 4.48                | 7.09                 | 5.2               | 6.19              |
| 93114518      | GRRX6R8PTWT           | Round           | LRXR6xxxxxxx     | 12.60 x 7.64 x 3.54  | 5.91-6.50  | 6.18                | 9                    | 6.5               | 8.6               |
| 93114519      | GRRX6S8PTWT           | Square          | LRXS6xxxxxxx     | 13.35 x 11.34 x 3.54 | 5.95-7.50  | 6.22                | 8.98                 | 7.5               | 8.08              |
| 93114520      | GRRX8R10PTWT          | Round           | LRXR8xxxxxxx     | 15.55 x 11.34 x 3.54 | 7.68-8.27  | 7.87                | 10.5                 | 8.27              | 10.1              |
| 93114521      | GRRX8S10PTWT          | Square          | LRXS8xxxxxxx     | 13.35 x 11.34 x 3.54 | 7.95-9.50  | 8.23                | 10.98                | 9.5               | 10.08             |
| 93114522      | GRRX8R12PTWT          | Round           | LRXR8xxxxxxx     | 15.55 x 11.34 x 3.54 | 7.68-8.27  | 7.87                | 12.99                | 10.1              | 12.59             |
| 93114523      | GRRX8S12PTWT          | Square          | LRXS8xxxxxxx     | 13.35 x 11.34 x 3.54 | 7.95-9.50  | 8.23                | 12.99                | 10.58             | 12.09             |

#### B. For New Construction:

| Goof Ring SKU | Goof Ring Description | Goof Ring Shape | Suitable Fixture | Suitable Frame | Inside of Goof Ring | Outside of Goof Ring | Ceiling Hole(min) | Ceiling Hole(max) |
|---------------|-----------------------|-----------------|------------------|----------------|---------------------|----------------------|-------------------|-------------------|
|               |                       |                 |                  |                | Size (in.)          | Size (in.)           | Size (in.)        | Size (in.)        |
| 93114516      | GRRX4R6PTWT           | Round           | LRXR4xxxxxxx     | FRAME4Rxxxx    | 4.48                | 7.09                 | 5.2               | 6.69              |
| 93114517      | GRRX4S6PTWT           | Square          | LRXS4xxxxxxx     | FRAME4Sxxxx    | 4.48                | 7.09                 | 5.2               | 6.19              |
| 93114518      | GRRX6R8PTWT           | Round           | LRXR6xxxxxxx     | FRAME6Rxxxx    | 6.18                | 9                    | 6.5               | 8.6               |
| 93114519      | GRRX6S8PTWT           | Square          | LRXS6xxxxxxx     | FRAME6Sxxxx    | 6.22                | 8.98                 | 7.5               | 8.08              |
| 93114520      | GRRX8R10PTWT          | Round           | LRXR8xxxxxxx     | FRAME8Rxxxx    | 7.87                | 10.5                 | 8.27              | 10.1              |
| 93114521      | GRRX8S10PTWT          | Square          | LRXS8xxxxxxx     | FRAME8Sxxxx    | 8.23                | 10.98                | 9.5               | 10.08             |
| 93114522      | GRRX8R12PTWT          | Round           | LRXR8xxxxxxx     | FRAME8Rxxxx    | 7.87                | 12.99                | 10.1              | 12.59             |
| 93114523      | GRRX8S12PTWT          | Square          | LRXS8xxxxxxx     | FRAME8Sxxxx    | 8.23                | 12.99                | 10.58             | 12.09             |

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|                       |                        |                        |                         |                              |                                   |                                  |
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|-----------------------|------------------------|------------------------|-------------------------|------------------------------|-----------------------------------|----------------------------------|

## LRX Accessories (Ordered separately):

| PRODUCT DESCRIPTION                          | MATERIAL DESCRIPTION | MATERIAL | NOTES                                                               |
|----------------------------------------------|----------------------|----------|---------------------------------------------------------------------|
| EMERGENCY BATTERY BACKUP KIT (7W)            | LRXEMBBKIT07         | 93043031 | 7 WATT EMBB QUICK CONNECT KIT (MUST HAVE FIXTURE WITH "EL" OPTION)  |
| EMERGENCY BATTERY BACKUP KIT (10W)           | LRXEMBBKIT10         | 93043540 | 10 WATT EMBB QUICK CONNECT KIT (MUST HAVE FIXTURE WITH "EL" OPTION) |
| 4" NEW CONSTRUCTION ROUND FRAME KIT          | FRAME4R              | 93090208 | RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS                       |
| 6" NEW CONSTRUCTION ROUND FRAME KIT          | FRAME6R              | 93025091 | RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS                       |
| 8" NEW CONSTRUCTION ROUND FRAME KIT          | FRAME8R              | 93025092 | RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS                       |
| 4" NEW CONSTRUCTION SQUARE FRAME KIT         | FRAME4S              | 93090209 | RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS                       |
| 6" NEW CONSTRUCTION SQUARE FRAME KIT         | FRAME6S              | 93045426 | RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS                       |
| 8" NEW CONSTRUCTION SQUARE FRAME KIT         | FRAME8S              | 93045427 | RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS                       |
| ENLIGHTENED SENSOR KIT                       | LCACBAVQNUNGALV      | 93029451 | SEE LCA KIT LITERATURE & INSTALL GUIDE                              |
| DAINTREE SENSOR KIT                          | LCACBAVTQUNGALV      | 93057194 | SEE LCA KIT LITERATURE & INSTALL GUIDE                              |
| HANGER BAR, C-CHANNEL - 25 1/4" (BOXED PAIR) | BH3                  | 93110306 | RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS                       |
| 347V KIT                                     | LRX347V277           | 93036250 | 347V TRANSFORMER QUICK CONNECT KIT                                  |
|                                              |                      |          |                                                                     |
|                                              |                      |          |                                                                     |
|                                              |                      |          |                                                                     |

## Colored Round Trim Options (ordered separately):

|                                                                                     | PRODUCT DESCRIPTION                                          | MATERIAL DESCRIPTION | MATERIAL | LUMEN OUTPUT |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------|----------|--------------|
|    | LRXR6 ROUND 6" TRIM INSERT, BLACK                            | LRXR6TRIMBL          | 93059501 | 70%          |
|    | LRXR6 ROUND 6" TRIM INSERT, SILVER                           | LRXR6TRIMSV          | 93059502 | 90%          |
|   | LRXR8 ROUND 8" TRIM INSERT, BLACK (NOT AVAILABLE IN 3000LM)  | LRXR8TRIMBL          | 93059503 | 70%          |
|  | LRXR8 ROUND 8" TRIM INSERT, SILVER (NOT AVAILABLE IN 3000LM) | LRXR8TRIMSV          | 93059504 | 85%          |

## Ordering Information:

| PRODUCT FAMILY                           | SHAPE/SIZE                                                                  | LUMENS                                                                                   | CRI        | CCT                                                                            | DIMMING                                                                | OPTIONS                                      |
|------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------|
| LRX = Lumination™<br>RX Series Downlight | R4 = 4" Round<br>Retrofit Downlight<br>S4 = 4" Square<br>Retrofit Downlight | 10 <sup>1</sup> = 1000lm/650lm                                                           | 8 = 82 CRI | 27 <sup>6</sup> = 2700K<br>30 <sup>6</sup> = 3000K<br>35 = 3500K<br>40 = 4000K | MD = 0-10V Dimming<br>PH <sup>3</sup> = 120V Forward<br>Phase Dimmable | BLANK = None<br>EL <sup>4</sup> = EMBB Ready |
|                                          | R6 = 6" Round<br>Retrofit Downlight<br>S6 = 6" Square<br>Retrofit Downlight | 10 <sup>1</sup> = 1000lm/650lm<br>18 = 1800lm                                            |            |                                                                                |                                                                        |                                              |
|                                          | R8 = 8" Round<br>Retrofit Downlight<br>S8 = 8" Square<br>Retrofit Downlight | 10 <sup>1</sup> = 1000lm/650lm<br>18 = 1800lm<br>30 = 3000lm<br>40 <sup>2</sup> = 4000lm |            |                                                                                |                                                                        |                                              |

### NOTES:

- 1000lm models feature a selectable lumen package to allow field adjustments to light output. See page 7 for details.
- 4000lm model only available with phase dimming and Round Shape.
- Forward Phase Dimming only available in Round Shape.
- Must order "EL" option + LRXEMBBKIT (sold separately) for complete EMBB solution.
- The standard trim is white. Colored trim options are available, see page 3 for details.
- 2700K and 3000K are available; however, check manufacturer for lead time and quote.
- Attach to existing frame or install with new frame kit (orderd separately) per UL.



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# Photometric Data: Lumination™ LRX Series Downlights

## Performance Summary:

0-10V Dimming

| NOMINAL LUMENS         | 650 | 1000 | 1800 | 3000 |
|------------------------|-----|------|------|------|
| Delivered Lumens-LRX*4 | 700 | 1020 | N/A  | N/A  |
| Delivered Lumens-LRX*6 | 700 | 1050 | 1900 | N/A  |
| Delivered Lumens-LRX*8 | 750 | 1200 | 2000 | 3300 |
| System Input Power (W) | 8.5 | 13   | 22   | 35   |
| System Efficacy (LPW)  | 88  | 92   | 91   | 94   |

## Delivered Lumen Multipliers

| CCT   | MULTIPLIERS |
|-------|-------------|
| 4000K | 1           |
| 3500K | 0.98        |
| 3000K | 0.94        |

Forward Phase Dimming

| NOMINAL LUMENS         | 650 | 1000 | 1800 | 3000 | 4000 |
|------------------------|-----|------|------|------|------|
| Delivered Lumens-LRXR4 | 620 | 990  | N/A  | N/A  | N/A  |
| Delivered Lumens-LRXR6 | 660 | 1060 | 1820 | N/A  | N/A  |
| Delivered Lumens-LRXR8 | 710 | 990  | 1960 | 3180 | 4080 |
| System Input Power (W) | 7   | 11   | 19   | 29   | 41   |
| System Efficacy (LPW)  | 101 | 103  | 103  | 109  | 99   |

\* LPW based off of LRXR8 delivered lumens

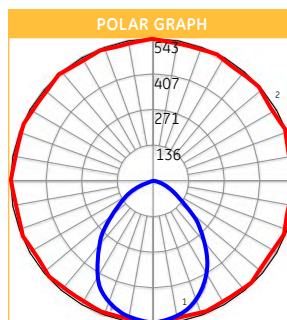
## 4" Round LRX (EX: LRXR410830MD)

| LUMINANCE DATA (CD/SQ.M) |       |       |       |
|--------------------------|-------|-------|-------|
| Angle                    | 0°    | 45°   | 90°   |
| 45°                      | 44163 | 43507 | 44576 |
| 55°                      | 31383 | 30998 | 31794 |
| 65°                      | 19283 | 19142 | 19599 |
| 75°                      | 12977 | 12649 | 12986 |
| 85°                      | 6327  | 6456  | 8002  |

| ZONAL LUMEN SUMMARY |        |
|---------------------|--------|
| Zone                | Lumens |
| 0-10                | 50.98  |
| 10-20               | 143.53 |
| 20-30               | 208.85 |
| 30-40               | 226.68 |
| 40-50               | 194.68 |
| 50-60               | 131.45 |
| 60-70               | 66.78  |
| 70-80               | 29.04  |
| 80-90               | 6.9    |
| 90-100              | 0.04   |
| 100-110             | 0.04   |
| 110-120             | 0.03   |
| 120-130             | 0.02   |
| 130-140             | 0.02   |
| 140-150             | 0.02   |
| 150-160             | 0.02   |
| 160-170             | 0.01   |
| 170-180             | 0.00   |

| COEFFICIENTS OF UTILIZATION |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RC                          | 80% |     |     |     |     | 70% |     |     |     | 50% |     |     | 30% |     |     | 10% |     |     | 0%  |
| RW                          | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 10% | 0%  |
| 0                           | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 100 |
| 1                           | 111 | 107 | 103 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 90  | 88  |
| 2                           | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 90  | 86  | 82  | 87  | 84  | 80  | 84  | 81  | 79  | 77  | 77  |
| 3                           | 95  | 86  | 79  | 73  | 92  | 84  | 78  | 73  | 81  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 69  | 67  | 67  |
| 4                           | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  | 59  |
| 5                           | 81  | 70  | 62  | 56  | 79  | 69  | 62  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  | 52  |
| 6                           | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 60  | 54  | 49  | 58  | 53  | 49  | 47  | 47  |
| 7                           | 71  | 58  | 50  | 45  | 69  | 58  | 50  | 45  | 56  | 49  | 44  | 55  | 49  | 44  | 53  | 48  | 44  | 42  | 42  |
| 8                           | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 40  | 52  | 45  | 40  | 51  | 44  | 40  | 49  | 44  | 40  | 38  | 38  |
| 9                           | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 37  | 46  | 40  | 36  | 35  | 35  |
| 10                          | 58  | 46  | 39  | 34  | 57  | 46  | 38  | 34  | 45  | 38  | 34  | 44  | 38  | 33  | 43  | 37  | 33  | 32  | 32  |

| ZONAL LUMEN SUMMARY |        |           |              |
|---------------------|--------|-----------|--------------|
| Zone                | Lumens | % of Lamp | % of Fixture |
| 0-20                | 194.51 | N.A.      | 18.4         |
| 0-30                | 403.36 | N.A.      | 38.1         |
| 0-40                | 630.04 | N.A.      | 59.5         |
| 0-60                | 956.17 | N.A.      | 90.3         |
| 0-80                | 1052   | N.A.      | 99.3         |
| 0-90                | 1058.9 | N.A.      | 100          |



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## 6" Round LRX (EX: LRXR610830MD)

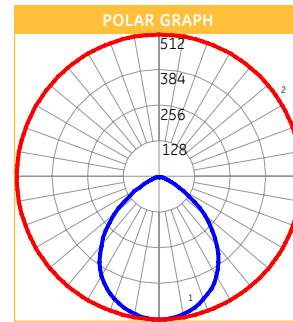
| ZONAL LUMEN SUMMARY |        |
|---------------------|--------|
| Zone                | Lumens |
| 0-10°               | 48.26  |
| 10-20°              | 135.99 |
| 20-30°              | 199.14 |
| 30-40°              | 221.96 |
| 40-50°              | 188.12 |
| 50-60°              | 118.95 |
| 60-70°              | 54.04  |
| 70-80°              | 25.47  |
| 80-90°              | 7.78   |
| 90-100°             | 0.06   |
| 100-110°            | 0.02   |
| 110-120°            | 0.03   |
| 120-130°            | 0.03   |
| 130-140°            | 0.04   |
| 140-150°            | 0.05   |
| 150-160°            | 0.05   |
| 160-170°            | 0.03   |
| 170-180°            | 0.01   |

| COEFFICIENTS OF UTILIZATION |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| RC                          | 80% |     |     |     | 70% |     |     |     | 50% |     |     | 30% |     |     | 10% |     |     | 0%  |  |  |
| RW                          | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0%  |  |  |
| 0                           | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |
| 1                           | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |  |  |
| 2                           | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 85  | 91  | 86  | 83  | 87  | 84  | 81  | 85  | 82  | 79  | 77  |  |  |
| 3                           | 95  | 86  | 79  | 74  | 93  | 85  | 78  | 73  | 82  | 76  | 72  | 79  | 75  | 71  | 77  | 73  | 69  | 68  |  |  |
| 4                           | 88  | 78  | 70  | 64  | 86  | 76  | 69  | 64  | 74  | 68  | 63  | 72  | 67  | 62  | 70  | 65  | 62  | 60  |  |  |
| 5                           | 82  | 70  | 63  | 57  | 80  | 69  | 62  | 57  | 67  | 61  | 56  | 66  | 60  | 55  | 64  | 59  | 55  | 53  |  |  |
| 6                           | 76  | 64  | 56  | 51  | 74  | 63  | 56  | 50  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 53  | 49  | 47  |  |  |
| 7                           | 71  | 59  | 51  | 45  | 69  | 58  | 51  | 45  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 43  |  |  |
| 8                           | 66  | 54  | 46  | 41  | 65  | 53  | 46  | 41  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 39  |  |  |
| 9                           | 62  | 50  | 42  | 37  | 61  | 49  | 42  | 37  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35  |  |  |
| 10                          | 59  | 46  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 38  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |  |  |

NOTE: Floor Cavity Reflectance : 20%

| ZONAL LUMEN SUMMARY |        |              |
|---------------------|--------|--------------|
| Zone                | Lumens | % of Fixture |
| 0-20°               | 184.25 | 18.40        |
| 0-30°               | 383.39 | 38.30        |
| 0-40°               | 605.34 | 60.50        |
| 0-60°               | 912.41 | 91.20        |
| 0-80°               | 991.92 | 99.20        |
| 0-90°               | 999.70 | 100.00       |

| LUMINANCE DATA (CANDELA/m²) |       |       |       |
|-----------------------------|-------|-------|-------|
| Gamma                       | 0°    | 45°   | 90°   |
| 45°                         | 17519 | 17519 | 17519 |
| 55°                         | 11682 | 11682 | 11682 |
| 65°                         | 6286  | 6286  | 6286  |
| 75°                         | 4723  | 4723  | 4723  |
| 85°                         | 4000  | 4000  | 4000  |



## 8" Round LRX (EX: LRXR818830MD)

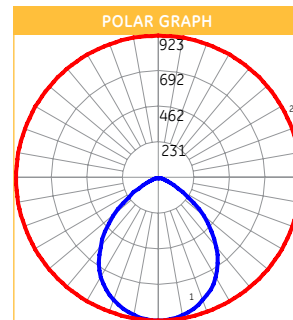
| ZONAL LUMEN SUMMARY |        |
|---------------------|--------|
| Zone                | Lumens |
| 0-10°               | 87.00  |
| 10-20°              | 245.00 |
| 20-30°              | 357.94 |
| 30-40°              | 405.72 |
| 40-50°              | 355.72 |
| 50-60°              | 213.19 |
| 60-70°              | 84.35  |
| 70-80°              | 37.58  |
| 80-90°              | 10.61  |
| 90-100°             | 0.07   |
| 100-110°            | 0.14   |
| 110-120°            | 0.29   |
| 120-130°            | 0.44   |
| 130-140°            | 0.54   |
| 140-150°            | 0.55   |
| 150-160°            | 0.48   |
| 160-170°            | 0.31   |
| 170-180°            | 0.10   |

| COEFFICIENTS OF UTILIZATION |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| RC                          | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     | 10% |     |     |     | 0% |
| RW                          | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0% |
| 0                           | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 102 | 102 | 100 |    |
| 1                           | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 94  | 92  | 90  | 88  |     |     |    |
| 2                           | 103 | 96  | 91  | 86  | 101 | 94  | 89  | 85  | 91  | 87  | 83  | 88  | 84  | 81  | 85  | 82  | 79  | 78  |     |     |    |
| 3                           | 95  | 87  | 80  | 74  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 80  | 75  | 71  | 77  | 73  | 70  | 68  |     |     |    |
| 4                           | 88  | 78  | 71  | 65  | 86  | 77  | 70  | 65  | 75  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 60  |     |     |    |
| 5                           | 82  | 71  | 63  | 57  | 80  | 70  | 63  | 57  | 68  | 61  | 56  | 66  | 60  | 56  | 64  | 59  | 55  | 53  |     |     |    |
| 6                           | 76  | 65  | 57  | 51  | 75  | 64  | 56  | 51  | 62  | 55  | 50  | 60  | 54  | 50  | 59  | 54  | 50  | 48  |     |     |    |
| 7                           | 71  | 59  | 51  | 46  | 70  | 58  | 51  | 46  | 57  | 50  | 45  | 56  | 50  | 45  | 54  | 49  | 45  | 43  |     |     |    |
| 8                           | 67  | 54  | 47  | 41  | 65  | 54  | 46  | 41  | 52  | 46  | 41  | 51  | 45  | 41  | 50  | 45  | 41  | 39  |     |     |    |
| 9                           | 62  | 50  | 43  | 38  | 61  | 50  | 42  | 38  | 49  | 42  | 37  | 47  | 41  | 37  | 47  | 41  | 37  | 35  |     |     |    |
| 10                          | 59  | 47  | 39  | 34  | 57  | 46  | 39  | 34  | 45  | 39  | 34  | 44  | 38  | 34  | 43  | 38  | 34  | 32  |     |     |    |

NOTE: Floor Cavity Reflectance : 20%

| ZONAL LUMEN SUMMARY |         |              |
|---------------------|---------|--------------|
| Zone                | Lumens  | % of Fixture |
| 0-20°               | 332.00  | 18.40        |
| 0-30°               | 689.94  | 38.30        |
| 0-40°               | 1095.66 | 60.90        |
| 0-60°               | 1664.57 | 92.50        |
| 0-80°               | 1786.51 | 99.20        |
| 0-90°               | 1797.12 | 99.80        |

| LUMINANCE DATA (CANDELA/m²) |      |      |      |
|-----------------------------|------|------|------|
| Gamma                       | 0°   | 45°  | 90°  |
| 45°                         | 8251 | 8251 | 8251 |
| 55°                         | 4433 | 4433 | 4433 |
| 65°                         | 1645 | 1645 | 1645 |
| 75°                         | 827  | 827  | 827  |
| 85°                         | 263  | 263  | 263  |



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# Photometric Data: Lumination™ LRX Series Downlights

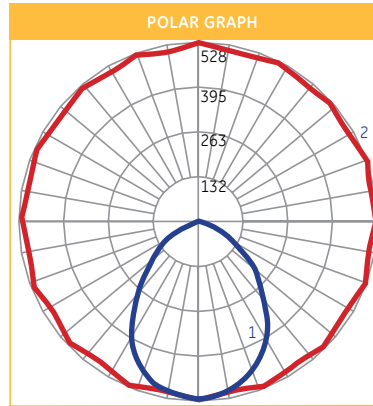
## 4" Square LRX (EX: LRXS410830MD)

| LUMINANCE DATA (CD/SQ.M) |       |       |       |
|--------------------------|-------|-------|-------|
| Angle                    | 0°    | 45°   | 90°   |
| 45°                      | 35273 | 36299 | 35256 |
| 55°                      | 27588 | 27635 | 27301 |
| 65°                      | 18968 | 18839 | 18210 |
| 75°                      | 8602  | 9764  | 7882  |
| 85°                      | 6858  | 7083  | 5183  |

| ZONAL LUMEN SUMMARY |        |
|---------------------|--------|
| Zone                | Lumens |
| 0-10                | 48.79  |
| 10-20               | 136.05 |
| 20-30               | 195.03 |
| 30-40               | 214.18 |
| 40-50               | 192.29 |
| 50-60               | 143.00 |
| 60-70               | 81.10  |
| 70-80               | 27.89  |
| 80-90               | 6.20   |
| 90-100              | 0.79   |
| 100-110             | 0.65   |
| 110-120             | 0.37   |
| 120-130             | 0.23   |
| 130-140             | 0.18   |
| 140-150             | 0.13   |
| 150-160             | 0.10   |
| 160-170             | 0.06   |
| 170-180             | 0.01   |

| COEFFICIENTS OF UTILIZATION |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|
| RC                          | 80% |     |     |     | 70% |     |     |     | 50% |     |     | 30% |     |     | 10% |     |     | 0%  |  |  |
| RW                          | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0%  |  |  |
| 0                           | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |
| 1                           | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 98  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |  |  |
| 2                           | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |  |  |
| 3                           | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |  |  |
| 4                           | 87  | 76  | 68  | 63  | 85  | 75  | 68  | 62  | 73  | 66  | 61  | 70  | 65  | 60  | 68  | 64  | 60  | 58  |  |  |
| 5                           | 81  | 69  | 61  | 55  | 79  | 68  | 60  | 55  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 51  |  |  |
| 6                           | 75  | 63  | 54  | 49  | 73  | 62  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 48  | 57  | 51  | 47  | 45  |  |  |
| 7                           | 70  | 57  | 49  | 44  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 54  | 47  | 43  | 52  | 47  | 42  | 41  |  |  |
| 8                           | 65  | 53  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 38  | 37  |  |  |
| 9                           | 61  | 49  | 41  | 36  | 60  | 48  | 41  | 36  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |  |  |
| 10                          | 57  | 45  | 38  | 33  | 56  | 44  | 37  | 33  | 43  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 30  |  |  |

| ZONAL LUMEN SUMMARY |         |           |              |
|---------------------|---------|-----------|--------------|
| Zone                | Lumens  | % of Lamp | % of Fixture |
| 0-20                | 184.85  | N.A.      | 17.7         |
| 0-30                | 379.88  | N.A.      | 36.3         |
| 0-40                | 594.06  | N.A.      | 56.7         |
| 0-60                | 929.35  | N.A.      | 88.8         |
| 0-80                | 1038.34 | N.A.      | 99.2         |
| 0-90                | 1044.54 | N.A.      | 99.8         |



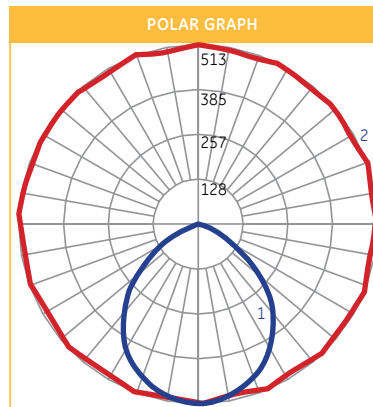
## 6" Square LRX (EX: LRXS610830MD)

| LUMINANCE DATA (CD/SQ.M) |       |       |       |
|--------------------------|-------|-------|-------|
| Angle                    | 0°    | 45°   | 90°   |
| 45°                      | 17826 | 19831 | 17826 |
| 55°                      | 12430 | 14165 | 12430 |
| 65°                      | 6627  | 8018  | 6627  |
| 75°                      | 3963  | 4079  | 3963  |
| 85°                      | 3057  | 3057  | 3057  |

| ZONAL LUMEN SUMMARY |        |
|---------------------|--------|
| Zone                | Lumens |
| 0-10                | 48.40  |
| 10-20               | 137.38 |
| 20-30               | 203.26 |
| 30-40               | 229.80 |
| 40-50               | 202.64 |
| 50-60               | 136.51 |
| 60-70               | 63.03  |
| 70-80               | 22.61  |
| 80-90               | 6.12   |
| 90-100              | 0.03   |
| 100-110             | 0.00   |
| 110-120             | 0.00   |
| 120-130             | 0.00   |
| 130-140             | 0.02   |
| 140-150             | 0.06   |
| 150-160             | 0.05   |
| 160-170             | 0.03   |
| 170-180             | 0.01   |

| COEFFICIENTS OF UTILIZATION |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |  |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|--|
| RC                          | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     | 10% |     |     | 0% |  |
| RW                          | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0%  |    |  |
| 0                           | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |  |
| 1                           | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 101 | 98  | 96  | 97  | 95  | 93  | 93  | 92  | 90  | 88  |    |  |
| 2                           | 103 | 96  | 90  | 85  | 100 | 94  | 89  | 84  | 91  | 86  | 82  | 87  | 84  | 81  | 84  | 81  | 79  | 77  |    |  |
| 3                           | 95  | 86  | 79  | 73  | 93  | 84  | 78  | 73  | 81  | 76  | 71  | 79  | 74  | 70  | 76  | 72  | 69  | 67  |    |  |
| 4                           | 88  | 77  | 70  | 64  | 86  | 76  | 69  | 63  | 74  | 67  | 63  | 71  | 66  | 62  | 69  | 65  | 61  | 59  |    |  |
| 5                           | 81  | 70  | 62  | 56  | 79  | 69  | 61  | 56  | 67  | 60  | 55  | 65  | 59  | 55  | 63  | 58  | 54  | 52  |    |  |
| 6                           | 76  | 64  | 56  | 50  | 74  | 63  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 58  | 53  | 48  | 47  |    |  |
| 7                           | 70  | 58  | 50  | 45  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 44  | 42  |    |  |
| 8                           | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |  |
| 9                           | 62  | 49  | 42  | 37  | 60  | 49  | 41  | 36  | 48  | 41  | 36  | 47  | 40  | 36  | 46  | 40  | 36  | 34  |    |  |
| 10                          | 58  | 46  | 38  | 33  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 42  | 37  | 33  | 31  |    |  |

| ZONAL LUMEN SUMMARY |         |           |              |
|---------------------|---------|-----------|--------------|
| Zone                | Lumens  | % of Lamp | % of Fixture |
| 0-20                | 185.78  | N.A.      | 17.70        |
| 0-30                | 389.04  | N.A.      | 37.10        |
| 0-40                | 618.84  | N.A.      | 58.90        |
| 0-60                | 957.99  | N.A.      | 91.20        |
| 0-80                | 1043.63 | N.A.      | 99.40        |
| 0-90                | 1049.74 | N.A.      | 100.00       |



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# Photometric Data: Lumination™ LRX Series Downlights

8" Square LRX (EX: LRXS810830MD)

| LUMINANCE DATA (CD/SQ.M) |       |       |       |
|--------------------------|-------|-------|-------|
| Angle                    | 0°    | 45°   | 90°   |
| 45°                      | 11581 | 12804 | 11581 |
| 55°                      | 7966  | 10235 | 7966  |
| 65°                      | 3805  | 5993  | 3805  |
| 75°                      | 2116  | 3248  | 2116  |
| 85°                      | 1680  | 3547  | 1680  |

| ZONAL LUMEN SUMMARY |        |
|---------------------|--------|
| Zone                | Lumens |
| 0-10                | 51.81  |
| 10-20               | 147.65 |
| 20-30               | 220.84 |
| 30-40               | 258.58 |
| 40-50               | 243.12 |
| 50-60               | 169.22 |
| 60-70               | 75.23  |
| 70-80               | 25.23  |
| 80-90               | 7.77   |
| 90-100              | 0.37   |
| 100-110             | 0.00   |
| 110-120             | 0.00   |
| 120-130             | 0.00   |
| 130-140             | 0.00   |
| 140-150             | 0.05   |
| 150-160             | 0.05   |
| 160-170             | 0.03   |
| 170-180             | 0.01   |

| ZONAL LUMEN SUMMARY |         |           |              |
|---------------------|---------|-----------|--------------|
| Zone                | Lumens  | % of Lamp | % of Fixture |
| 0-20                | 199.46  | N.A.      | 16.6         |
| 0-30                | 420.3   | N.A.      | 35           |
| 0-40                | 678.88  | N.A.      | 56.6         |
| 0-60                | 1091.22 | N.A.      | 90.9         |
| 0-80                | 1191.68 | N.A.      | 99.3         |
| 0-90                | 1199.45 | N.A.      | 100          |

| COEFFICIENTS OF UTILIZATION |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |    |
|-----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|----|
| RC                          | 80% |     |     |     | 70% |     |     |     | 50% |     |     |     | 30% |     |     |     | 10% |     |  |  | 0% |
| RW                          | 70% | 50% | 30% | 10% | 70% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0%  |  |  |    |
| 0                           | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |  |  |    |
| 1                           | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99  | 100 | 98  | 95  | 97  | 95  | 93  | 93  | 91  | 90  | 88  |  |  |    |
| 2                           | 102 | 95  | 90  | 85  | 100 | 94  | 88  | 84  | 90  | 86  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |  |  |    |
| 3                           | 94  | 85  | 78  | 73  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |  |  |    |
| 4                           | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |  |  |    |
| 5                           | 81  | 69  | 61  | 55  | 79  | 68  | 60  | 55  | 66  | 59  | 54  | 64  | 58  | 54  | 62  | 57  | 53  | 51  |  |  |    |
| 6                           | 75  | 63  | 55  | 49  | 73  | 62  | 54  | 49  | 60  | 53  | 48  | 58  | 52  | 48  | 57  | 52  | 47  | 45  |  |  |    |
| 7                           | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 54  | 47  | 43  | 52  | 47  | 42  | 41  |  |  |    |
| 8                           | 65  | 52  | 45  | 39  | 64  | 52  | 44  | 39  | 50  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 38  | 37  |  |  |    |
| 9                           | 61  | 48  | 41  | 35  | 59  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 35  | 33  |  |  |    |
| 10                          | 57  | 45  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 37  | 32  | 42  | 36  | 32  | 41  | 36  | 32  | 30  |  |  |    |

POLAR GRAPH

## Selectable Driver Package:

The LRX Series comes with a new Selectable Driver Package which allows customers to manually switch from full power (1000lm) to lower power (650lm) with just the switch of a button. This affords unprecedented flexibility to stock fewer SKUs. Reduces install risk by effectively having 2 lumen levels in 1 simple package.



\*This feature is only available in the 1000/650lm package.

## Product Specifications:

### Construction:

- 16 gauge Aluminum spinning reflector housing, powder coating
- Custom engineered heat sink flange for passive cooling on all lumen options

### Installation:

- Fixture mounting to an existing metal frame, or install with new frame kit (ordered separately)
- Conduit connect to quick-disconnect for easy installation
- Optional black or silver trims available (ordered separately)

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### Optical System:

- Custom engineered reflectors for wide distributions.
- Semi-diffuse diffuser for ideal combination of optical efficiency and uniformity

### Electrical System:

- High Efficiency, integrated driver with 0-10V dimming or Forward Phase Dimming
- Selectable Lumen Driver available in the 1000/650lm package.

For more information and access to all of our resources, including our design tool visit: [www.LED.com](http://www.LED.com)

